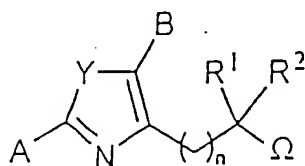


**Listing of Claims:**

**Claim 1** (currently amended) A method of ~~inhibiting monoamine oxidases and lipidie peroxidation and modulating activity vis-à-vis sodium channels~~ treating disorders of the central or peripheral nervous system in warm-blooded animals comprising administering to warm-blooded animals in need thereof an amount of a compound of the formula

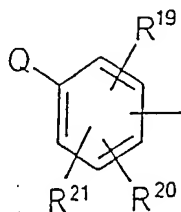


(I),

in racemic, enantiomeric form or any combination of these forms, ~~in which Het is a heterocycle with 5 members comprising 2 heteroatoms~~

in which

A is



in which Q is selected from the group consisting of is selected from the group consisting of H,  $-OR^{22}$ ,  $-NR^{23}R^{24}$ , phenyl optionally substituted by at least one substituent independently selected from the group consisting of OH, cyano, nitro, alkyl, alkoxy or  $-NR^{10}R^{11}$  and a group with two substituents representing together a methylenedioxy or ethylenedioxy, or Q is selected from the group consisting of  $-COPh$ ,  $-SO_2Ph$  or  $-CH_2Ph$ , said  $COPh$ ,  $-SO_2Ph$  or  $-CH_2Ph$  optionally substituted on its aromatic parts by at least one independently alkyl or alkoxy or halogen,

$R^{10}$  and  $R^{11}$  are independently selected from the group consisting of hydrogen, alkyl and  $-COR^{12}$ , or  $R^{10}$  and  $R^{11}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being independently selected from the group consisting of O, N and S,

$R^{12}$  is selected from the group consisting of hydrogen, alkyl, alkoxy and  $NR^{13}R^{14}$ ,

$R^{13}$  and  $R^{14}$  are independently, hydrogen or alkyl, or  $R^{13}$  and  $R^{14}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being chosen independently from the group consisting of O, N and S,

$R^{22}$  is selected from the group consisting of hydrogen, alkyl and aryl optionally substituted by at least one substituent selected from the group consisting of alkyl, OH, halogen, nitro and alkoxy,

$R^{23}$  and  $R^{24}$  are independently selected from the group consisting of hydrogen, alkyl and  $-CO-R^{25}$ ,

$R^{25}$  is alkyl,

and  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are independently selected from the group consisting of hydrogen, halogen, -OH, -SR<sup>26</sup> alkyl, cycloalkyl, alkenyl, alkoxy, cyano, nitro, -SO<sub>2</sub>NHR<sup>49</sup>,

-CONHR<sup>55</sup>, -S(O)<sub>q</sub>R<sup>56</sup>, -NH(CO)R<sup>57</sup>, -CF<sub>3</sub>, -OCF<sub>3</sub> and NR<sup>27</sup>R<sup>28</sup>,

$R^{27}$  and  $R^{28}$  are independently selected from the group consisting of hydrogen, alkyl and -COR<sup>29</sup>, or  $R^{27}$  and  $R^{28}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being independently selected from the group consisting of O, N and S,

$R^{49}$  and  $R^{55}$  are independently each time that they occur, hydrogen or alkyl or alkylcarbonyl,

q is an integer from 0 to 2,

$R^{56}$  and  $R^{57}$  are, each time that they occur, hydrogen or alkyl or alkoxy,

$R^{29}$  is selected from the group consisting of hydrogen, alkyl, alkoxy and -NR<sup>30</sup>R<sup>31</sup>,

$R^{30}$  and  $R^{31}$ ; are independently selected from the group consisting of hydrogen and alkyl, or  $R^{30}$  and  $R^{31}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being independently selected from the group consisting of O, N and S,

Y is O or S;

$R^1$  is hydrogen, alkyl, aminoalkyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, trifluoromethylalkyl, alkenyl, allenyl, allenylalkyl, alkynyl, cyanoalkyl,  $-(CH_2)_g-Z^1R^{39}$ ,  $-(CH_2)_g-COR^{40}$ ,  $-(CH_2)_g-NHCOR^{70}$ , aryl, aralkyl, arylcarbonyl, heteroarylalkyl and aralkylcarbonyl, the aryl group of the aryl, aralkyl, arylcarbonyl, heteroarylalkyl or aralkylcarbonyl itself being optionally substituted by at least one substituent selected from the group consisting of alkyl, halogen, alkoxy, nitro, cyano, cyanoalkyl, amino, alkylamino, dialkylamino,  $-(CH_2)_k-Z^2R^{39}$  and  $-(CH_2)_k-COR^{40}$ ,  $Z^1$  and  $Z^2$  is selected from the group consisting of a bond, -O-,  $-NR^{41}$ - and -S-,

$R^{39}$  and  $R^{41}$  are independently each time that they occur, selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl and cyanoalkyl,

$R^{40}$  is, independently each time that it occurs, selected from the group consisting of hydrogen, alkyl, allenyl, allenylalkyl, alkenyl, alkynyl, cyanoalkyl, alkoxy and  $NR^{42}R^{43}$ ,

$R^{42}$  and  $R^{43}$  are independently, each time that they occur, selected from the group consisting of hydrogen, alkyl, allenyl, allenylalkyl, alkenyl, alkynyl and cyanoalkyl and

$R^2$  is selected from the group consisting of hydrogen, alkyl, aminoalkyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, trifluoromethylalkyl,  $-(CH_2)_g-NHCOR^{71}$ , aralkyl and heteroarylalkyl optionally substituted on the aryl or heteroaryl by at least one member selected from the group consisting of halogen, alkyl, alkoxy, hydroxyl, cyano, nitro, amino, alkylamino and dialkylamino,

$R^{70}$  and  $R^{71}$  are independently alkyl or alkoxy;

or  $R^1$  and  $R^2$ , taken together with the carbon atom which carries them, form a carbocycle with 3 to 7 members;

B is selected from the group consisting of hydrogen, alkyl,  $-(CH_2)_g-Z^3R^{44}$  and carbocyclic aryl optionally substituted 1 to 3 times by a member selected from the group consisting of halogen, alkyl and alkoxy of 1 to 6 carbon atoms, hydroxy, cyano, nitro, amino, alkylamino, dialkylamino and a carbocyclic aryl,

$Z^3$  is selected from the group consisting of a bond,  $-O-$ ,  $NR^{45}-$  and  $-S-$ ,

$R^{44}$  and  $R^{45}$  are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, allenyl, allenylalkyl and cyanoalkyl;

$\Omega$  is  $NR^{46}R^{47}$  or  $OR^{48}[:,:]$ ;

$R^{46}$  and  $R^{47}$  are independently selected from the group consisting of hydrogen, alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, allenyl, allenylalkyl, cyanoalkyl,  $-(CH_2)_g-Z^4R^{50}$ ,  $-(CH_2)_k-COR^{51}$ ,  $-(CH_2)_k-COOR^{51}$ ,  $-(CH_2)_k-CONHR^{51}$ ,  $-SO_2R^{51}$ , aryl, aralkyl, aryloxyalkyl, arylcarbonyl, arylimino, aralkylcarbonyl, heteroaryl, the aryl or heteroaryl of said aryl, aralkyl, aryloxyalkyl, arylcarbonyl, arylimino, aralkylcarbonyl, heteroaryl, pyridinylalkyl or pyridinylcarbonyl being optionally substituted by at least one member independently selected from the group consisting of halogen, alkyl, alkoxy, hydroxy, nitro, cyano, cyanoalkyl, amino, alkylamino, dialkylamino,  $Z^5R^{50}$ ,  $-(CH_2)_k-COR^{51}$  and  $-(CH_2)_k-COOR^{51}$ ,

$Z^4$  and  $Z^5$  are selected from the group consisting of a bond, -O-, -NR<sup>52</sup>- and -S-,  
 or R<sup>46</sup> and R<sup>47</sup> taken together form with the nitrogen atom a non-aromatic heterocycle  
 with 4 to 8 ring members, the elements of the chain being selected from the group  
 consisting of -CH(R<sup>53</sup>)-, -NR<sup>54</sup>-, -O-, -S- and -CO-,  
 R<sup>50</sup> and R<sup>52</sup> are independently each time that they ~~they~~ occur, selected from the group  
 consisting of hydrogen, alkyl, alkenyl, alkynyl, allenyl, allenylalkyl and cyanoalkyl,  
 R<sup>51</sup> is, independently each time that they occur, selected from the group consisting of  
 hydrogen, cycloalkyl and cycloalkylalkyl in which the cycloalkyl has 3 to 7 carbon  
 atoms, alkyl of 1 to 8 carbon atoms, alkenyl, alkynyl, allenyl, allenylalkyl, cyanoalkyl,  
 alkoxyalkyl, NR<sup>58</sup>R<sup>59</sup>, aryl or aralkyl, said aryl or aralkyl optionally substituted by at least  
 one member selected from the group consisting of halogen, alkyl and alkoxy,  
 R<sup>58</sup> and R<sup>59</sup> are independently a member selected from the group consisting of hydrogen,  
 alkyl, alkenyl, alkynyl, allenyl, allenylalkyl and cyanoalkyl,  
 R<sup>53</sup> and R<sup>54</sup> are independently a member selected from the group consisting of hydrogen  
 or -(CH<sub>2</sub>)<sub>k</sub>-Z<sup>7</sup>R<sup>60</sup> and -(CH<sub>2</sub>)<sub>k</sub>-COR<sup>61</sup>,  
 $Z^7$  is a member selected from the group consisting of a bond, -O-, -NR<sup>62</sup>- and -S-,  
 R<sup>60</sup> and R<sup>62</sup> are independently a member selected from the group consisting of hydrogen,  
 alkyl, alkenyl, allenyl, allenylalkyl, alkynyl, cyanoalkyl, aryl, aralkyl, arylcarbonyl,  
 aralkylcarbonyl, pyridinyl, pyridinylalkyl or pyridinylcarbonyl, the aryl or pyridinyl of  
 the aryl, aralkyl, arylcarbonyl, aralkylcarbonyl, pyridinyl, pyridinylalkyl or  
 pyridinylcarbonyl being optionally substituted by at least one substituent selected from  
 the group consisting of alkyl, halogen, nitro, alkoxy, cyano, cyanoalkyl, -(CH<sub>2</sub>)<sub>k</sub>-Z<sup>8</sup>R<sup>63</sup>  
 and -(CH<sub>2</sub>)<sub>k</sub>-COR<sup>64</sup>,

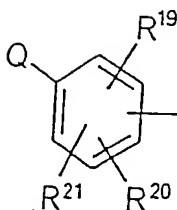
$R^{61}$  is a member selected from the group consisting of hydrogen, alkyl, allenyl, allenylalkyl, alkenyl, alkynyl, cyanoalkyl, alkoxy and  $NR^{65}R^{66}$ ,  
 $R^{65}$  and  $R^{66}$  are independently selected from the group consisting of hydrogen, alkyl, allenyl, allenylalkyl, alkenyl, alkynyl and cyanoalkyl,  
 $Z^8$  is a member selected from the group consisting of a bond, -O-,  $-NR^{67}-$  and -S-,  
 $R^{63}$  and  $R^{67}$  are independently a member selected from the group consisting of hydrogen, alkyl, allenyl, allenylalkyl, alkenyl, alkynyl and cyanoalkyl,  
 $R^{64}$  is a member of the group consisting of hydrogen, alkyl, allenylalkyl, alkenyl, alkenyl, alkynyl, cyanoalkyl, alkoxy and  $NR^{68}R^{69}$ ,  
 $R^{68}$  and  $R^{69}$  are independently a member selected from the group consisting of hydrogen, alkyl, allenyl, allenylalkyl, alkenyl, alkynyl cyanoalkyl,  
 and  $R^{48}$  is a member selected from the group consisting of hydrogen, alkyl, alkynyl and cyanoalkyl;

g and p, each time that they occur, being independently integers from 1 to 6, and k and n, each time that they occur, being independently integers from 0 to 6;

or a salt thereof sufficient to inhibit monoamine oxydases and lipidic peroxidation and a modulating activity vis-à-vis sodium channels.

**Claim 2 (currently amended)** The method of claim 1 wherein

A is



in which Q is selected from the group consisting of H, -OR<sup>22</sup>, -SR<sup>22</sup>, -NR<sup>23</sup>R<sup>24</sup>, phenyl optionally substituted by at least one member selected from the group consisting of halogen, OH, cyano, nitro, alkyl, alkoxy and -NR<sup>10</sup>R<sup>11</sup> and a group of two substituents together being methylenedioxy or ethylenedioxy, or Q is selected from the group consisting of -COPh, -OPh, -SPh, -SO<sub>2</sub>Ph or -CH<sub>2</sub>Ph, said -COPh, -OPh, -SPh, -SO<sub>2</sub>Ph or -CH<sub>2</sub>Ph being optionally substituted on its aromatic part by at least one member selected from the group consisting of alkyl, alkoxy and halogen, R<sup>10</sup> and R<sup>11</sup> are independently selected from the group consisting of hydrogen, alkyl, or R<sup>10</sup> and R<sup>11</sup> form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 ring members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being independently selected from the group consisting of O, N and S,



$R^{22}$  is selected from the group consisting of hydrogen, alkyl and aryl optionally substituted by at least one member selected from the group consisting of alkyl, OH, halogen, nitro and alkoxy,

$R^{23}$  and  $R^{24}$  are, independently, hydrogen, or alkyl or  $-CO-R^{25}$ ,

$R^{25}$  is alkyl,

and  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are independently selected from the group consisting of hydrogen, halogen, OH,  $SR^{26}$ , alkyl, cycloalkyl, alkenyl, alkoxy, cyano, nitro,  $-SO_2NHR^{49}$ ,  $-CONHR^{55}$ ,  $-S(O)_qR^{56}$ ,  $-NH(CO)R^{57}$ ,  $-CF_3$ ,  $-OCF_3$  and  $NR^{27}R^{28}$ ,

$R^{26}$  is hydrogen or alkyl,

$R^{27}$  and  $R^{28}$  are independently selected from the group consisting of hydrogen, alkyl and  $-COR^{29}$ , or  $R^{27}$  and  $R^{28}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 ring members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being selected from the group consisting of O, N and S,

$R^{49}$  and  $R^{55}$  are, independently each time that they occur, hydrogen or alkyl or alkylcarbonyl,

$q$  is an integer from 0 to 2,

$R^{56}$  and  $R^{57}$  are, independently each time that they occur, hydrogen or alkyl or alkoxy,

$R^{29}$  is selected from the group consisting of hydrogen, alkyl, alkoxy and  $-NR^{30}R^{31}$ ,

$R^{30}$  and  $R^{31}$  are independently selected from the group consisting of hydrogen, alkyl, or

$R^{30}$  and  $R^{31}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 ring members and 1 to 3 heteroatoms including the nitrogen atom

already present, the additional heteroatoms being selected from the group consisting of O,  
N and S,

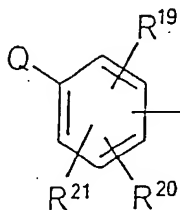
and T

aryl optionally substituted 1 to 3 times by

Ω.

**Claim 3** (currently amended) The method of claim 1 wherein

A is



in which Q is -OR<sup>22</sup>, -SR<sup>22</sup>, -NR<sup>23</sup>R<sup>24</sup>, phenyl optionally substituted by at least one member selected from the group consisting of halogen, OH, cyano, nitro, alkyl, alkoxy and -NR<sup>10</sup>R<sup>11</sup>,

R<sup>10</sup> and R<sup>11</sup> are independently selected from the group consisting of hydrogen or alkyl, or R<sup>10</sup> and R<sup>11</sup> form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 ring members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being selected from the group consisting of O, N and S,

$R^{22}$  is selected from the group consisting of hydrogen, alkyl and aryl optionally substituted by at least one member selected from the group consisting of alkyl, OH, halogen, nitro and alkoxy,

$R^{23}$  and  $R^{24}$  are, independently, hydrogen or alkyl,

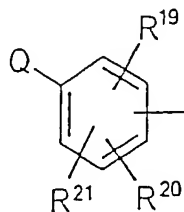
and  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are independently selected from the group consisting of hydrogen, halogen, OH,  $-SR^{26}$ , alkyl, alkenyl, alkoxy and  $NR^{27}R^{28}$ ,

$R^{26}$  is hydrogen or alkyl,

$R^{27}$  and  $R^{28}$  are independently selected from the group consisting of hydrogen, alkyl, or  $R^{27}$  and  $R^{28}$  form together with the nitrogen atom an optionally substituted heterocycle containing 4 to 7 members and 1 to 3 heteroatoms including the nitrogen atom already present, the additional heteroatoms being selected from the group consisting of O, N and S[.,].

**Claim 4 (currently amended)** The method of claim 3 wherein

A is



in which Q is selected from the group consisting of  $-OR^{22}$ ,  $-SR^{22}$  and phenyl substituted by OH and optionally by at least one member selected from the group consisting of halogen, OH, alkyl and alkoxy,

$R^{22}$  is hydrogen or alkyl,

and  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are independently selected from the group consisting of hydrogen, halogen, OH,  $SR^{26}$ , alkyl and alkoxy,

$R^{26}$  is hydrogen or alkyl,

$Z^3$

$[-(CH_2)_g-Z^4R^{50}-(CH_2)_k-COR^{51}]$

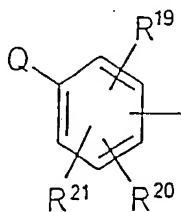
~~optionally substituted by one.~~

**Claim 5** (currently amended) The method of claim 4 wherein

the compound corresponds to formula (I)<sub>3</sub> in which Y is O

A is

$[- \text{ or } ]$

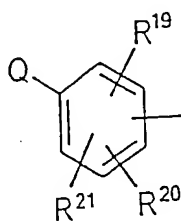


in which Q is OH, two of the  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are selected from the group consisting of alkyl, alkoxy, alkylthio, amino, alkylamino and dialkylamino and the third is selected from the group consisting of hydrogen, alkyl, alkoxy, alkylthio, amino, alkylamino and

dialkylamino, or Q is phenyl substituted by OH and at least one member selected from the group consisting of halogen, OH, alkyl, alkoxy and  $-NR^{10}R^{11}$ ,  $R^{10}$  and  $R^{11}$  are independently hydrogen or alkyl[[],]

~~piperidinyl or N-piperazinyl.~~

**Claim 6** (previously presented) The method of claim 5 wherein A is



in which Q is OH, two of the  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are alkyl and the third is H,  
or Q is phenyl substituted by OH and at least one alkyl.

**Claims 7-13** (cancelled)

**Claim 14** (currently amended) The method of claim 1 wherein Het is formula (I)<sub>3</sub> in which Y is O;

A is

in which Q is OH, two of the  $R^{19}$ ,  $R^{20}$  and  $R^{21}$  are alkyl and the third is hydrogen,

or in which Q is phenyl substituted by OH and at least one alkyl;

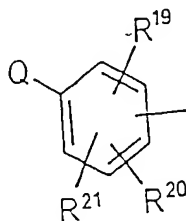
B is hydrogen atom;

n is 0 or 1;

$R^1$  and  $R^2$  both are hydrogen;

and  $\Omega$  is  $NR^{46}R^{47}$   $R^{46}$  is selected from the group consisting of hydrogen, alkyl, alkynyl, hydroxyalkyl and cyanoalkyl and  $R^{47}$  is hydrogen or alkyl or  $R^{46}$  and  $R^{47}$  form together with the nitrogen atom which carries them a non-aromatic heterocycle with 5 to 7 ring members, the additional members are  $-CH_2-$  or  $-NH-[[;]]$ .

**Claim 15** (previously presented) The method of claim 14, wherein the compound is selected from the group consisting of



- 4-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-N-methyl-2-thiazolemethanamine;
- 2-[(4-[3,5-di(tert-butyl)-4-hydroxyphenyl]-1,3-thiazol-2-yl)methyl](methylamino)-acetonitrile;
- 2,6-di(tert-butyl)-4-(2-[(2-hydroxyethyl)(methylamino)methyl]-1,3-thiazol-4-yl)phenol;
- 4-[[4-(3,5-ditert-butyl-4-hydroxyphenyl)-1,3-thiazol-2-yl)methyl](methylamino)-butanenitrile;
- 2,6-ditert-butyl-4-(4-{2-[methyl(2-propynyl)amino]ethyl}-1,3-oxazol-2-yl)phenol;
- 3-[[2-[2-(3,5-ditert-butyl-4-hydroxyphenyl)-1,3-oxazol-4-yl]ethyl](methylamino)-propanenitrile;
- 2,6-ditert-butyl-4-{4-[2-(1-piperazinyl)ethyl]-1,3-oxazol-2-yl}phenol;

and a pharmaceutically acceptable salt thereof.

**Claims 16-21 (cancelled)**

**Claim 22** (previously presented) The method of claim 1 wherein the compound is selected from the group consisting of 2-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-4-oxazoleethanol, 2,6-ditert-butyl-4-(4-{2-[methyl(2-propynyl)amino]ethyl}-1,3-oxazol-2-yl)phenol, [{2[2-(3,5-ditert-butyl-4-hydroxyphenyl)-1,3-oxazol-4-yl]ethyl}(methylamino)acetonitrile, 3-[[2-[2-(3,5-ditert-butyl-4-hydroxyphenyl)-1,3-oxazol-4-yl]ethyl}(methylamino)-propanenitrile, 2,6-ditert-butyl-4-{4-[2-(1-piperazinyl)ethyl]-1,3-oxazol-2-yl}phenol hydrochloride, 2,6-ditert-butyl-4-[4-(hydroxymethyl)-1,3-thiazol-2-yl]phenol and 2,6-ditert-butyl-4-{4-[(methylamino)methyl]-1,3-thiazol-2-yl}phenol hydrochloride.

**Claim 23** (previously presented) The method of claim 1 used for treating disorders of the central or peripheral nervous system.

**Claim 24** (previously presented) The method of claim 23 wherein the disorder is selected from the group consisting of Parkinson's disease, Alzheimer's disease, Huntington's chorea, amyotrophic lateral sclerosis and peripheral neuropathies.

**Claim 25** (previously presented) The method of claim 23 wherein the disorder is pain.